

**WHAT IS CLAIMED:**

1. A computer system, comprising a neural network or plurality thereof trained for diagnosing endometriosis.
2. A method for diagnosing endometriosis in a subject,
  - 5 comprising:
    - querying and examining the patient to assess the answers to at least three of the following questions:
      - past history of endometriosis, number of births, dysmenorrhea, age, pelvic pain, history of pelvic surgery, smoking and if yes, the number of
 10 packs/day, medication history, number of pregnancies, number of abortions, abnormal PAP smear/dysplasia, pregnancy hyperplasia, genital warts and diabetes; and
 based upon the results of the answers determining whether the patient has endometriosis.
3. A computer system, comprising a neural network or plurality thereof trained for assessing the risk of delivery within a selected time period, wherein the time period is within seven or fourteen days of performing a biochemical test to measure fetal fibronectin in a sample from a pregnant subject or the time period is prior to thirty five weeks of
 20 gestation.
  4. The system of claim 3, wherein the time period is within seven days of performing a biochemical test to measure fetal fibronectin.
  5. The system of claim 3, wherein the time period is within or fourteen days of performing a biochemical test to measure fetal
 25 fibronectin.
  6. The system of claim 3, wherein the time period is prior to thirty five weeks of gestation.